Review of: "Simulation of Control System for a Half-Car Suspension System for Passenger Vehicle Application by Designing an LQR Controller"

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Potential competing interests: No potential competing interests to declare.

The paper deals with an interesting topic related to the numerical vibrations control of a model implemented to simulate half-car suspension. Unfortunately, in its actual form, the paper cannot be accepted for publication for different reasons: 1) the English is quite poor in all sections; 2) the formatting of equations and figures has to be improved; 3) The parametric simulations could be enlarged considering, for example, other strategies to design the control force/s; 4) The introduction is missing some pioneering scientific papers related to structural control (so it has to be strengthened, see Spencer, Dyke, Premount, Fujino, Masri, Warnitchai, Christenson, and others); 5) The model should be better described: highlighting the variables to be controlled and the control force/s to be delivered; 6) A more in-depth description of the results in terms of both cinematic and mechanical variables.

In any case, as I said at the beginning, the topic is interesting and worthy of study.